Title (en)

BATTERY

Title (de)

BATTERIE

Title (fr)

BATTERIE

Publication

EP 3745519 A4 20210324 (EN)

Application

EP 18902210 A 20181212

Priority

- JP 2018011526 A 20180126
- JP 2018011527 A 20180126
- JP 2018173450 A 20180918
- JP 2018045585 W 20181212

Abstract (en)

[origin: EP3745519A1] Provided is a battery in which the internal resistance is further decreased. The present disclosure provides a battery, comprising a positive electrode, a negative electrode, and an electrolyte layer provided between the positive electrode and the negative electrode. The electrolyte layer includes a first solid electrolyte material. The first solid electrolyte material includes Li, M, and X, and does not include sulfur. M is at least one selected from the group consisting of metalloid elements and metal elements other than Li. X is at least one selected from the group consisting of Cl, Br, and I. The negative electrode includes a negative electrode active material and a sulfide solid electrolyte.

IPC 8 full level

H01M 10/0562 (2010.01); **C01B 25/14** (2006.01); **C01F 17/00** (2020.01); **C01G 25/04** (2006.01); **H01M 4/133** (2010.01); **H01M 4/587** (2010.01); **H01M 4/62** (2006.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01); H01M 4/02 (2006.01)

CPC (source: EP US)

C01F 17/36 (2020.01 - EP); **C01G 25/006** (2013.01 - EP); **H01M 4/133** (2013.01 - EP US); **H01M 4/587** (2013.01 - EP US); **H01M 4/62** (2013.01 - EP US); **H01M 10/052** (2013.01 - US); **H01M 10/0525** (2013.01 - EP); **H01M 10/0562** (2013.01 - EP US); **H01M 50/431** (2021.01 - US); **H01M 50/449** (2021.01 - US); **H01M 50/46** (2021.01 - US); C01B 25/14 (2013.01 - EP); H01M 2004/027 (2013.01 - EP US); H01M 2004/028 (2013.01 - US); H01M 2300/0068 (2013.01 - EP); H01M 2300/008 (2013.01 - EP US); H01M 2300/0091 (2013.01 - EP); H01M 2300/0094 (2013.01 - EP US); Y02E 60/10 (2013.01 - EP)

Citation (search report)

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- [A] JOHANN AMBROSIUS BARTH ET AL: "Ternary Halides of the A3 MX 6Type. VII. The Bromides Li3MBr6(M=Sm-Lu, Y): Synthesis", CRYSTAL STRUCTURE, JOURNAL OF INORGANIC AND GENERAL CHEMISTRY, vol. 623, 1 September 1997 (1997-09-01), pages 1352 - 1356, XP055600030, DOI: 10.1002/zaac.19976230905
- See also references of WO 2019146293A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3745519 A1 20201202; **EP 3745519 A4 20210324**; **EP 3745519 B1 20221102**; CN 111566864 A 20200821; CN 111566864 B 20240322; JP 7249562 B2 20230331; JP WO2019146293 A1 20210128; US 11631853 B2 20230418; US 2020350625 A1 20201105; WO 2019146293 A1 20190801

DOCDB simple family (application)

EP 18902210 A 20181212; CN 201880085630 A 20181212; JP 2018045585 W 20181212; JP 2019567903 A 20181212; US 202016931092 A 20200716